

For use in:
Factory Automation
Robotic Motion Control
X/Y Table position feedback
Mil/aero test stands



LP-22 Series Linear Potentiometer

Linear Potentiometer Designed specifically for the factory automation industry

The LP-22 series linear potentiometer is a cost effect solution for factory automation linear position sensing applications like robotic motion control, X-Y table position feedback, flow control valve position, suspension travel, press and die position, injection molding machines, and mil/aero test stand applications. This 3-wire resistive film sensor is available in stroke lengths from 25 to 300 mm, with a maximum linearity error of 0.1% of full scale. The sensor is provided with swivel rod eyes at each end for self-alignment and easy mounting. A 22 mm diameter anodized aluminum housing rated IP-64 protects the unit from airborne contaminants, and the sensor is rugged enough to withstand the typical shock and vibration environments of industrial shop floors.

Features:

- Full ranges from 25 to 300 mm (1 to 12 inches)
- Self-aligning swivel rod eyes on both ends
- 1 m long, 3-conductor cable
- 22 mm OD anodized aluminum housing

Environmental Specifications:

Operating temperature	-40 to 150 C
Temperature coefficient	<1.5 ppm/°C
Shock	50 g (IEC 68-2-29, single hit)
Vibration	20 g (IEC 68-2-6)
Environmental protection	IEC IP-64

Performance Specifications:

Input current	≤12 mA
Resolution	Infinite
Output range	0 to 100% of input
Repeatability	0.01 mm (0.0004 inch)
Max operating speed	5 m/s

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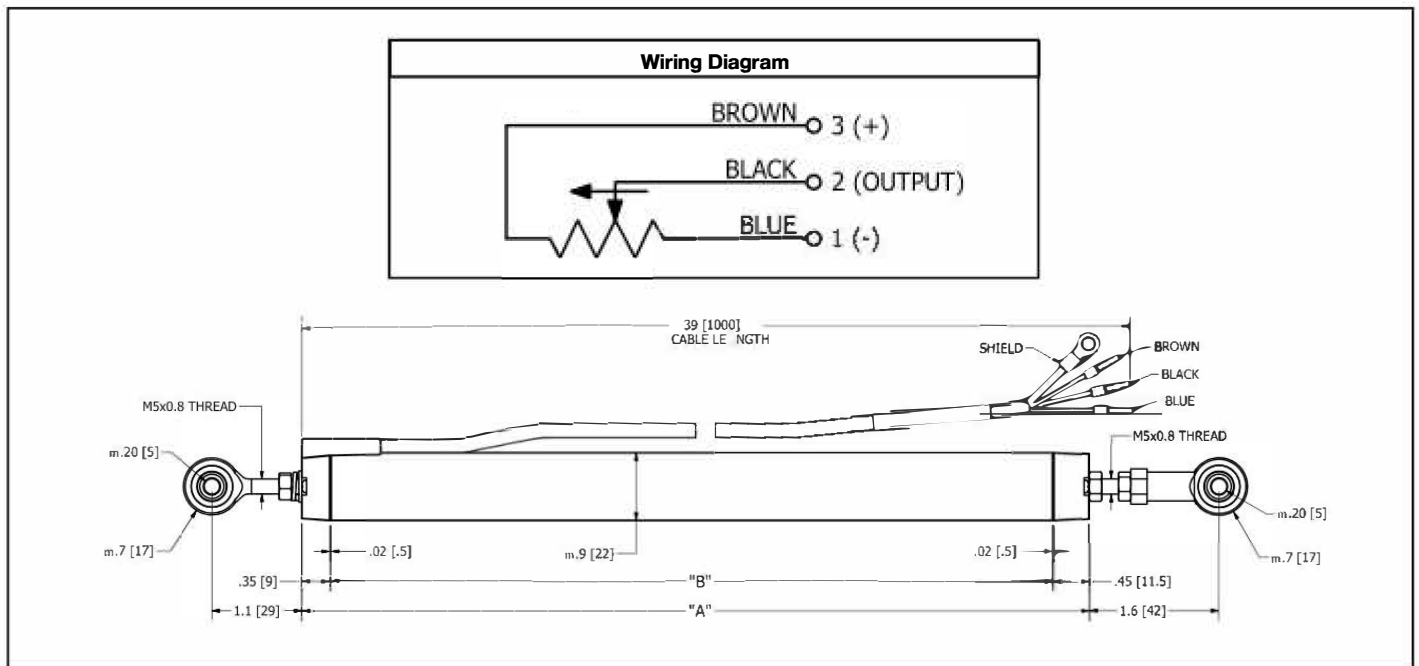
LP-22 Series



Configuration Information:

Product	LP-22-025	LP-22-050	LP-22-100	LP-22-150	LP-22-200	LP-22-250	LP-22-300
Range (mm)	25	50	100	150	200	250	300
Resistance $\pm 10\%$	1 k	2 k	4 k	5 k	5 k	5 k	5 k
Max input Voltage	12	24	24	36	36	36	36
Non-linearity %FS	± 0.10	± 0.10	± 0.08	± 0.08	± 0.06	± 0.06	± 0.06
Body length A (mm)	79	104	154	204	254	304	354
Dimension B (mm)	58	83	133	183	233	283	333
Weight (grams)	75	100	155	190	215	245	270
Rod eye c-c (mm)	139	164	214	264	314	364	414

Ordering Information:



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